


## Appendix I

>gb|AAL78656.1|AF472514\_1  thymus high mobility group box protein TOX [Mus musculus]  
Length=526

GENE ID: 252838 Tox | thymocyte selection-associated HMG box gene  
[Mus musculus] (Over 10 PubMed links)

Score = 293 bits (749), Expect = 2e-78, Method: Compositional matrix adjust.  
Identities = 183/305 (60%), Positives = 226/305 (74%), Gaps = 16/305 (5%)

Query	1	MSDGNPELLSTSQTYNQGESNEDYEIPPITPPNLPEPSLLHLGDHEAGYHSLCHGLAPN	60
		M++ + + + SQ+Y +ED+ IPPITPP+LP+ SL+HL + E+GYHSLCH + N	
Sbjct	44	MTEPSQDYVPASQSYPGPSLESEDFNIPPITPPSLPDHSLVHLNEVESGYHSLCHPMNHN	103
Query	61	GLLPAYSQAMDLP AIMVSNMLAQDGHLLSGQLPTIQEMVHSEVAAYDS-----G	110
		GLLP + Q MDLP I VSNML QDG LLS + +QE+ ++E A Y S G	
Sbjct	104	GLLP-FHPQTMDLPEITVSNMLGQDGLLSNSISVMQEIGNAEGAQYSSHPQMAAMRPRG	162
Query	111	RPGPLLGRPAMLA-SHMSALSQSQLISQMGLRSG---IAHSSPSPPGSKSATPSPSSSTQ	166
		+P + + +M+ ++ ++QSQL +Q+GL G +AH+SPSPPGSKSATPSPSSS	
Sbjct	163	QPTDIRQQASMMQPGQLTTINQSQLSAQLGLNMGGTINVAHNSPSPPGSKSATPSPSSSVH	222
Query	167	EEESDAHFKISG-EKRPSTDPGKKAKNPKKKKKKDPNEPQKPV SAYALFFRDTQAAIKGQ	225
		E+E + KI+G EKRP++D GKK K PKKKKKKDPNEPQKPV SAYALFFRDTQAAIKGQ	
Sbjct	223	EDECEDASKINGGEKRPASDMGKKPKTPKKKKKKDPNEPQKPV SAYALFFRDTQAAIKGQ	282
Query	226	NPSATFGDVSKIVASMWDSLGEQKQAYKRKTEAAKKEYLKALAA YRASLVSKSPPDQGE	285
		NP+ATFG+VSKIVASMWD LGEEQKQ YK+KTEAAKKEYLK LAAYRASLVSKS D +	
Sbjct	283	NP NATFG EVSKIVASMWDGLGEEQKQVYKKKTEAAKKEYLKQLAAYRASLVSKSYTDPVD	342
Query	286	AKNAQ 290	
		K +Q	
Sbjct	343	VKTSQ 347	

Query: SEQ ID NO: 1